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Customer No.: 31561

Application No.: 10/604,689 Docket No.: 10870-US-PA

AMENDMENT

In the Claims

Please amend the claims as follows:

Claim 1 (currently amended) A pixel array for a non-touch panel input device, wherein

the pixel array at least comprises a plurality of first pixel structures with each pixel structure at

least comprising:

a sub-pixel, adapted for displaying a color in visible light spectrum; and

a first strip-shaped shadow pixel, longitudinally positioned on and extending along [[one]]

a first side of the sub-pixel, wherein the first strip-shaped shadow pixel emits electromagnetic

radiation either in a first electromagnetic radiation state or in a second electromagnetic radiation

state; and

a second strip-shaped shadow pixel, latitudinally positioned on and extending along a

second side of the sub-pixel, wherein the second strip-shaped shadow pixel emits

electromagnetic radiation either in a third electromagnetic radiation state or in a fourth

electromagnetic radiation state such that the third and the fourth electromagnetic radiation state

are different from each other.

wherein a position of the sub-pixel can be determined by detecting the first

electromagnetic radiation state or the second electromagnetic radiation state of the

electromagnetic radiation emitted from the first strip-shaped shadow pixel and the third

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electromagnetic radiation state or the fourth electromagnetic radiation state of the electromagnetic radiation emitted from the second strip-shaped shadow pixel.

Claim 2 (currently amended) The pixel array of claim 1, wherein the first strip-shaped

shadow pixel and the second strip-shaped pixel are [[is]] fabricated using a material capable of

producing electromagnetic radiation in the invisible portion of the light spectrum.

Claim 3 (canceled)

Claim 4 (currently amended) The pixel array of claim [[3]] 1, wherein the first shadow

pixel in the first electromagnetic radiation state has a length or width different from the first

shadow pixel in the second electromagnetic radiation state.

Claim 5 (currently amended) The pixel array of claim [[3]] 1, wherein the first shadow

pixel in the first electromagnetic radiation state has a reflectivity different from the first shadow

pixel in the second electromagnetic radiation state.

Claim 6 (currently amended) The pixel array of claim [[3]] 1, wherein the first shadow

pixel in the first electromagnetic radiation state radiates with a wavelength different from the first

shadow pixel in the second electromagnetic radiation state.

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Claim 7 (currently amended) The pixel array of claim [[3]] 1, wherein the first shadow

pixel in the first electromagnetic radiation state is fabricated using a material different from the

first shadow pixel in the second electromagnetic radiation state.

Claim 8-10 (canceled)

Claim 11 (currently amended) The pixel array of claim [[10]] I, wherein the second

shadow pixel in the third electromagnetic radiation state has a length or width different from the

second shadow pixel in the fourth electromagnetic radiation state.

Claim 12 (currently amended) The pixel array of claim [[10]] 1, wherein the second

shadow pixel in the third electromagnetic radiation state has a reflectivity different from the

second shadow pixel in the fourth electromagnetic radiation state.

Claim 13 (currently amended) The pixel array of claim [[10]] 1, wherein the second

shadow pixel in the third electromagnetic radiation state radiates with a wavelength different

from the second shadow pixel in the fourth electromagnetic radiation state.

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Claim 14 (currently amended) The pixel array of claim [[10]] 1, wherein the second

shadow pixel in the third electromagnetic radiation state is fabricated using a material different

from the second shadow pixel in the fourth electromagnetic radiation state.

Claim 15 (original) The pixel array of claim 1, wherein the pixel array furthermore

comprises a plurality of second pixel structures with each second pixel structure at least having a

sub-pixel without a first shadow pixel such that the sub-pixel in each second pixel structure is

located in a position corresponding to the sub-pixel of the first pixel structure.

Claim 16 (original) The pixel array of claim 15, wherein each second pixel structure

furthermore comprises a second shadow pixel positioned on the other side of the sub-pixel

corresponding to the second shadow pixel in the first pixel structure.

Claim 17 (original) The pixel array of claim 16, wherein the second shadow pixel is

fabricated using a material capable of producing electromagnetic radiation in the invisible part of

the spectrum.

Claim 18 (new) A non-touch panel input device, comprising:

a display panel, comprising a plurality of pixel structures, at least some of the pixel

structures each having at least two shadow pixel that are perpendicularly configured one to

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another, wherein the shadow pixels are capable of emitting signals containing location

information; and

a sensor suspended over the display panel, wherein the sensor is capable of receiving the

invisible signals from the shadow pixel to find the location information by which the location of

the sensor relative to the display can be obtained.

Claim 19 (new) A non-touch panel input device, comprising:

a display panel having a pixel array, wherein the pixel array at least comprises a plurality

of first pixel structures with each pixel structure at least comprising:

a sub-pixel, adapted for displaying a color in visible light spectrum; and

a first strip-shaped shadow pixel, longitudinally positioned on and extending

along a first side of the sub-pixel, wherein the first strip-shaped shadow pixel emits

electromagnetic radiation either in a first electromagnetic radiation state or in a second

electromagnetic radiation state; and

a second strip-shaped shadow pixel, longitudinally positioned on and extending

along another side of the sub-pixel, wherein the second strip-shaped shadow pixel emits

electromagnetic radiation either in a third electromagnetic radiation state or in a fourth

electromagnetic radiation state such that the third and the fourth electromagnetic radiation

state are different from each other, and

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a sensor suspended over the display panel, wherein the sensor is adapted for remotely obtaining a location of the sensor relative to the display by detecting the first electromagnetic radiation state or the second electromagnetic radiation state of the electromagnetic radiation emitted from the first strip-shaped shadow pixel and the third electromagnetic radiation state or the fourth electromagnetic radiation state of the electromagnetic radiation emitted from the second strip-shaped shadow pixel.